

### Abstract

A raster microscope provided with an exciting light beam (3) for optically exciting a first sample area; also provided with a stimulating light beam (15) for triggering the stimulated emission or for further excitation in another sample area at least partially overlapping with the first sample area; at least one lens (45) for focusing the exciting light beam (3) and stimulating light beam (15), further comprising an optical component (23) for influencing the form of the focus of the exciting light beam (3) and/or stimulating light beam (15). The raster microscope is characterized in that at least one lens (29, 57) is provided for imaging the optical component in the aperture (59) of the lens (45). The size of the image of the optical component (23) is adjustable.